

Notice of Allowability	Application No.	Applicant(s)	
	09/994,511	AHN ET AL.	
	Examiner	Art Unit	
	Kenneth J. Ramsey	2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to IDS filed 3/4/03.
2. ☒ The allowed claim(s) is/are 42-44, 46-51, 56-70, 74, 76-78 and 80-84.
3. ☒ The drawings filed on 11/26/01 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>0803</u> | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Because the issue revision clerk incorrectly marked claim 56 of amendment "B" as the claim to print in the patent document and not claim 56 of amendment "C", the correct claim is reproduced below. It is noted that correct copies of all pending claims can be found in amendment "C", filed March 4, 2003.

56. (Amended)

A method of fabricating a field emission display baseplate comprising:

forming conductors on a substrate;

forming a porous silicon dioxide layer to form a layer of porous silicon dioxide having a porosity of greater than 22.5% on the conductors and on the substrate, the porous silicon dioxide layer comprising columnar spacers of silicon dioxide with pores between the columnar spacers;

planarizing the silicon dioxide layer;

forming an extraction grid on the porous silicon dioxide layer;

etching openings through the silicon dioxide and the extraction grid; and

forming emitters in the openings in the porous silicon dioxide and the extraction grid.

This claim will be claim 22 in the patent.

REASONS FOR ALLOWANCE

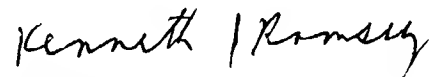
The following is an examiner's statement of reasons for allowance: Claim 1 is allowed since the prior art of record does not teach or suggest method of fabricating a field emission device as claimed, particularly the steps of oxidizing the porous silicon layer to form a layer of porous silicon dioxide; and planarizing the silicon dioxide layer. Claim 56 is allowable since the steps of forming a porous silicon dioxide layer having a porosity of greater than 22.5% on the conductors and substrate, the porous silicon dioxide layer comprising columnar spacers of silicon dioxide with pores between the columnar spacers; and planarizing the silicon dioxide layer are not taught or suggested.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Directions for Responses

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth J. Ramsey at 703-308-2324.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (703) 305-4794.



Kenneth J. Ramsey
Primary Examiner
Art Unit 2879

KJR